

10051299

Abstract of the Disclosure

According to the present invention, a periodically perturbation part which serves as a refractive index modulated part is provided in a part of the optical waveguide of an optical fiber or the like in the longitudinal direction thereof, a line perpendicular to a level plane of this periodically perturbation part is tilted with respect to the optical axis X of the optical waveguide, and the plane defined by this optical axis X and a line A intersecting the optical axis X, that is, the deflection angle plane M is made, by twisting or the like, to include a portion that varies depending on the position of the optical waveguide in the longitudinal direction thereof. Thereby, the deflection angle direction Y of the optical waveguide is altered in the longitudinal direction thereof, the polarization in the deflection angle direction and the polarization in a direction perpendicular to the deflection angle direction are canceled in the longitudinal direction of the optical waveguide, and an optical waveguide type filter with low wavelength dependency is provided.